



South Carolina Department of Health  
and Environmental Control

## Keowee-Ebenezer, Craig Hill, Hartwell and Brown A. B. Community Well Water Testing Results

Date	Team # – Sample #	Tritium*	Gross Alpha*	Gross Beta*	Gross Gamma*	Notes
02/20/2008	10-501	< LLD	< LLD	< LLD	N/A	Surface Water
02/20/2008	10-0-503	< LLD	< LLD	< LLD	N/A	Surface Water
02/20/2008	10-0-505	< LLD	< LLD	< LLD	N/A	Surface Water
02/20/2008	ONS-01-01	< LLD	15.2 pCi/L	7.20 pCi/L	---	Private Well
07/24/2008	ONS-01-01	< LLD	4.11 pCi/L	5.96 pCi/L	< LLD	Private Well
02/20/2008	ONS-01-02	< LLD	---	---	---	Private Well
09/10/2008	ONS-01-02	< LLD	3.90 pCi/L**	8.61 pCi/L	< LLD	Private Well
02/20/2008	ONS-01-03	< LLD	< LLD	< LLD	N/A	Private Well
02/20/2008	ONS-02-11	< LLD	358.0 pCi/L	342.0 pCi/L	---	Private Well
07/24/2008	ONS-02-11	< LLD	70.0 pCi/L	44.3 pCi/L	< LLD	Private Well
02/20/2008	ONS-02-12	< LLD	24.0 pCi/L	7.92 pCi/L	---	Private Well
07/24/2008	ONS-02-12	< LLD	9.83 pCi/L	6.43 pCi/L	< LLD	Private Well

Date	Team # – Sample #	Gross Alpha Contributors				Notes
		<u>Radium-226</u>	<u>Radium-228</u>	<u>Radium 226 &amp; 228</u>	<u>Uranium</u>	
07/24/2008	ONS-01-01	< LLD	< LLD	< LLD	< LLD	Private Well
09/10/2008	ONS-01-02	2.53 pCi/L	3.51 pCi/L	6.04 pCi/L	< LLD	Private Well
07/24/2008	ONS-02-11	2.11 pCi/L	< LLD	2.825 pCi/L	96.6 pCi/L	Private Well
07/24/2008	ONS-02-12	3.16 pCi/L	1.06 pCi/L	4.22 pCi/L	< LLD	Private Well

\* = Measured in pCi/L or picocuries per liter of water.

\*\* = While Gross Alpha levels were within the EPA safe drinking water limit, results for specific screening for Combined Radium-226 and Radium-228 exceeded additional MCLs.

<LLD Lower Level of Detection (means any radioactive material present was lower than what is scientifically measurable). This can also be expressed as Minimum Detectable Activity (MDA).

N/A = Initial screening of sample showed no indicators that would require secondary Gross Gamma screening/testing. (Gross Gamma test are run only if Gross Alpha or Gross Beta is exceeded.)

### EPA Safe Drinking Water – Maximum Contamination Levels

Tritium	=	20,000 picocuries per liter of water ***
Gross Alpha	=	15 picocuries per liter of water ***
Gross Beta	=	50 picocuries per liter of water ***

### EPA Safe Drinking Water Levels for Gross Alpha Contributors – Maximum Contamination Levels

Radium-226	=	5 picocuries per liter of water ***
Radium-228	=	5 picocuries per liter of water ***
Combined Radium-226 +228 (if both are present)	=	5 picocuries per liter of water ***
Uranium	=	30 picocuries per liter of water ***

\*\*\* All limits are based upon consumption of two liters of water per day, 365 days per year over a 70-year lifespan.